### PATENT COOPERATION TREATY

#### From the INTERNATIONAL BUREAU

### PCT

NOTIFICATION CONCERNING TRANSMITTAL OP COPY OF INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY (CHAPTER I OF THE PATENT COOPERATION TREATY)

(PCT Rule 44bis, 1(c))

To:

FENSTER, Paul FENSTER & COMPANY, INTELLECTUAL PROPERTY 2002 LTD. P. O. BOX 10256 49002 PETACH TIKVA ISRAĒL

-	Date of mailing (duy/month/year) 05 January 2006 (05.01.2006)		
	Applicant's or agent's file reference 110/04075		

IMPORTANT NOTICE

International application No. PCT/IL2004/000527

International filing date (day/month/year)
17 June 2004 (17.06.2004)

Priority date (day/month/year) 17 June 2003 (17.06.2003)

Applicant

DISC ORTHOPAEDIC TECHNOLOGIES INC. et al

The International Bureau transmits herewith a copy of the international preliminary report on patentability (Chapter 1 of the Patent Cooperation Treaty)

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Docketed By IR

16 JAN 2006

To: CS JUF

TO: MK AD 12

FINSTER & Co.

The International Bureau of WIPO 34, chemin des Colombettes 1211 Geneva 20, Switzerland

Authorized officer

Simin Baharlou

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### PATENT COOPERATION TREATY

## **PCT**

# INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY (Chapter I of the Patent Cooperation Treaty)

(PCT Rule 44bis)

Applicant's or agent's file reference 110/04075	FOR FURTHER ACTION	See itcm 4 below	
International application No. PCT/IL2004/000527	International filing date (day/month/year) 17 June 2004 (17.06.2004)	Priority date (day/month/year) 17 June 2003 (17.06.2003)	
International Patent Classification (8th edition unless older edition indicated) See relevant information in Form PCT/ISA/237			
Applicant DISC ORTHOPAEDIC TECHNOL	OGIES INC.		

1.	This international preliminary report on patentability (Chapter I) is issued by the International Bureau on behalf of the International Searching Authority under Rule 44 bis.1(a).		
2,	This REPORT consists of a total of 6 sheets, including this cover sheet.		
	In the attached sheets, any reference to the written opinion of the International Searching Authority should be read as a reference to the international preliminary report on patentability (Chapter I) instead.		
3.	3. This report contains indications relating to the following items:		
	Box No. I	Basis of the report	
	Box No. II	Priority	
	Box No. III	Non-establishment of opinion with regard to novelty, inventive step and industrial applicability	
	Box No. IV	Lack of unity of invention	
	Box No. V	Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement	
	Box No. VI	Certain documents cited	
	Box No. VII	Certain defects in the international application	
	Box No. VIII	Certain observations on the international application	
4.	The International Bureau will onot, except where the applicant date (Rule 44bis .2).	communicate this report to designated Offices in accordance with Rules 44bis-3(c) and 93bis.1 but makes an express request under Article 23(2), before the expiration of 30 months from the priority	

	Date of issuance of this report 19 December 2005 (19.12.2005)
The International Bureau of WIPO 34, chemin des Colombettes 1211 Geneva 20, Switzerland	Authorized officer Simin Baharlou
Facsimile No. +41 22 740 14 35	Telephone No. +41 22 338 71 30

Form PCT/IB/373 (January 2004)

## PATENT COOPERATION TREATY

From the INTERNATIONAL SEARCHING AUTHORITY			REC'D 28 APR 2005
To: PAUL FENSTER FENSTER & COMPANY, INTELLECTUAL PROPERTY 2002 LTD.	WRI	PCT	OF THE
P.O.B OX 10256 PETACH TIKVA, ISRAEL 49002	INTERNATIONAL SEARCHING AUTHORITY		
		(PCT Rule 43bis.	1)
	Date of mailing (day/month/year)	26 APR	2005
Applicant's or agent's file reference	FOR FURTHER	ACTION See paragraph 2 below	,
110/04075 International application No. International filing date	(day/month/year)	Priority date (day/mo	onth/year)
		17 June 2003 (17.06	1
PCT/IL04/00527 17 June 2004 (17.06.20 International Patent Classification (IPC) or both national classifier	ation and IPC	17 June 2003 (17:00	
IPC(7): A61F 2/44 and US Cl.: 623/17.16			
Applicant			
DISC ORTHOPAEDIC TECHNOLOGIES INC.			
1. This opinion contains indications relating to the following its	ems:		
Box No. I Basis of the opinion			
Box No. II Priority .			
Box No. III Non-establishment of opinion with	regard to novelty, inv	entive step and industr	ial applicability
Box No. IV Lack of unity of invention	*		
Box No. V Reasoned statement under Rule 43% applicability; citations and explanate	ois.1(a)(i) with regard tions supporting such	to novelty, inventive s statement	step or inclustrial
Box No. VI Certain documents cited			
Box No. VII Certain defects in the international	application		
Box No. VIII Certain observations on the interna	tional application	,	× ·
2. FURTHER ACTION			
2. FURTHER ACTION  If a demand for international preliminary examination is made, this opinion will be considered to be a written opinion of the If a demand for international preliminary Examining Anthority ("IPEA") except that this does not apply where the applicant chooses an International Preliminary Examining Anthority ("IPEA") except that this does not apply where the applicant chooses an International Full international Bureau under Rule 66.1 bis (b) Authority other than this one to be the IPEA and the chosen IPEA has notified the International Bureau under Rule 66.1 bis (b) that written opinions of this International Searching Authority will not be so considered.			
If this opinion is, as provided above, considered to be a written opinion of the IPEA, the applicant is invited to submit to the IPEA a written reply together, where appropriate, with amendments, before the expiration of 3 months from the date of mailing of Form PCT/ISA/220 or before the expiration of 22 months from the priority date, whichever expires later.			
For further options, see Form PCT/ISA/220.			
3. For further details, see notes to Form PCT/ISA/220.			44
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Mail Stop PCT, Attn: ISA/US	Pani B, Prebil	lic Transcort	
Commissioner for Patents P.O. Box 1450			
Alexandria, Virginia 22313-1450	Telephone No.	, (703) 308-0858	
Facsimile No. (703) 305-3230 Form PCT/ISA/237 (cover sheet) (January 2004)			
I OTHER CITEDEN WOLLD TO THE TOTAL OF THE TO			

International application No.	
PCT/IL04/00527	

Box No. I Basis of this opinion
1. With regard to the language, this opinion has been established on the basis of the international application in the language in which it was filed, unless otherwise indicated under this item.  This opinion has been established on the basis of a translation from the original language into the following language which is the language of a translation furnished for the purposes of international search (under Rules 12.3 and 23.1(b)).  2. With regard to any nucleotide and/or amino acid sequence disclosed in the international application and necessary to the
claimed invention, this opinion has been established on the basis of:
a. type of material
a sequence listing
table(s) related to the sequence listing
b. format of material
in written format
in computer readable form
c. time of filing/furnishing
contained in international application as filed.
filed together with the international application in computer readable form.
furnished subsequently to this Authority for the purposes of search.
3. In addition, in the case that more than one version or copy of a sequence listing and/or table relating thereto has been filed or furnished, the required statements that the information in the subsequent or additional copies is identical to that in the application as filed or does not go beyond the application as filed, as appropriate, were furnished.
4. Additional comments:

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	INTERNATIONAL SEARCHING AUTHORITY	PC1/II.04/00327
Bo	x No. IV Lack of unity of invention	
2.	In response to the invitation (Form PCT/ISA/206) to pay additional fees  paid additional fees  paid additional fees  not paid additional fees  This Authority found that the requirement of unity of invention is not to pay additional fees.  This Authority considers that the requirement of unity of invention in accordance to complied with  not complied with for the following reasons:  See the lack of unity section of the International Search Report(Form PCT)	t complied with and chose not to invite the applicant rdance with Rule 13.1, 13.2 and 13.3 is
	4. Consequently, this opinion has been established in respect of the following all parts.	ng parts of the international application:
	the parts relating to claims Nos. 1,2,4-8 and 10-46	

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NO

Box No. V Reasoned statement under Rule 43 bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

1. Statement

	approximity, controls and		
1.	Statement		
	Novelty (N)	Claims 16, 18-20, and 45	YES
	MOACTTÀ (14)	Claims 1. 2, 4-8, 10-15, 17, 21-44, and 46	NO
	Yanganina atau (TC)	Claims 16, 19, and 45	YES
	Inventive step (IS)	Claims 1, 2, 4-8, 10-15, 17, 18, 20-44, and 46	NO
	was a first of the or thing (TA)	Claims 1, 2, 4-8, and 10-46	YES
	Industrial applicability (IA)	Ciarina 1, 2, 4-6, and 10-44	

### 2. Citations and explanations:

Claims 1, 2, 4-8, 10-15, 17, 21-44, and 46 lack novelty under PCT Article 33(2) as being anticipated by PISHARODI (US 5,693,100). PISHARODI anticipates the claim language where the axial member as claimed is the screw (42) of PISHARODI; see Figures 6-9 and column 3, lines 40-58.

Claims NONE

Regarding claim 10, the handle as claimed is the screwdriver of PISHARODI; see column 5, lines 6-9.

Regarding claim 11, the screw (42) can be unscrewed such that the claim language is considered inherently met.

Regarding claim 14, the channel as claimed is the screw thread of PISHARODI.

Regarding claim 23, the axis of rotation could be less than full axial rotation such that the claim language would be fully met if the rotation where slight or if along a radius of the device.

Regarding claim 39, there are inherently differences in the lengths of elements (32) and (34) such that the claim language is inherently met because manufacturing by machining or otherwise cannot result in exactly identical lengths for all similar elements.

Claims 18 and 20 lack an inventive step under PCT Article 33(3) as being obvious over PISHARODI (US 5,693,100) in view of KUSLICH (US 5,059,193). PISHARODI meets the claim language except for the bag around the tube as claimed. However, KUSLICH teaches that it was known to put a bag or covering over similar expandable tubes within the art; see Figures 19-21 and column 9, lines 10-52. Therefore, it is the Examiner's position that it would have been obvious to put a bag or covering over the PISHARODI device for the same reasons that KUSLICH did the same.

Claims 16, 19, and 45 meet the criteria set out in PCT Article 33(2)-(3), because the prior art does not teach or fairly suggest an axial member that extends from said tube and is adapted to function as a joint (claim 16), a biodegradable bag/covering over the tube (claim 19), or a self-expanding deformer (claim 45).

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## Box No. VIII Certain observations on the international application

The following observations on the clarity of the claims, description, and drawings or on the questions whether the claims are fully supported by the description, are made:

Claims 4, 5, 28-31, 34, 35, 38, and 42 are objected to under PCT Rule 66.2(a)(v) as lacking clarity under PCT Article 6 because claims 4, 5, 28-31, 34, 35, 38, and 42 are indefinite for the following reason(s):

Regarding claims 4 and 5, it is unclear what element of claim 1 is being modified.

Regarding claim 28, it is not understood where the axial force is coming from or being applied.

Regarding claims 29-31, the "pliable material" lacks antecedent basis.

Regarding claims 34 and 35, this claim language is not understood because the deformer must occupy 100% of the volume it takes up.

Regarding claim 38, it is not clear how axially displaced leaves can support each other based upon how the present device is disclosed.

Regarding claim 38, line 2, it is unclear why "configurations" is plural and how this language is intended to modify the base claim.

Regarding claim 42, the claim language is not understood based upon the fact that the leaves are in a tube and thus not in a flat or planar device. In other words, it is not clear now the leaves can be deformed from a plane since the tube surface is not planar.